RAW SEQUENCE LISTING PATENT APPLICATION US/09/103,287

DATE: 07/06/98 TIME: 14:24:28

INPUT SET: S27178.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING	
2 3	(1)	General Information:	ENTERED
4 5 6		(i) APPLICANT: Wallis, Nicola G. Burnham, Martin K. R.	THIEMED
7 8 9		(ii) TITLE OF INVENTION: murc	
10 11 12		(iii) NUMBER OF SEQUENCES: 6	
13		(iv) CORRESPONDENCE ADDRESS:	
14		(A) ADDRESSEE: Dechert, Price & Rhoads	
15		(B) STREET: 4000 Bell Atlantic Tower, 1717 Arch	Stre
16		(C) CITY: Philadelphia	
17		(D) STATE: PA	
18.		(E) COUNTRY: USA	
19		(F) ZIP: 19103-2793	
20			
21		(V) COMPUTER READABLE FORM:	
22		(A) MEDIUM TYPE: Diskette	
23		(B) COMPUTER: IBM Compatible	
24		(C) OPERATING SYSTEM: Windows 95	
25		(D) SOFTWARE: FastSEQ for Windows Version 2.0b	
26			
27		(vi) CURRENT APPLICATION DATA:	
28		(A) APPLICATION NUMBER:	
29		(B) FILING DATE:	
30		(C) CLASSIFICATION:	
31			
32		(vii) PRIOR APPLICATION DATA:	·
33		(A) APPLICATION NUMBER: 60/052,720	
34		(B) FILING DATE: 03-JUL-1997	
35			
36			
37		•	
38		(viii) ATTORNEY/AGENT INFORMATION:	
39		(A) NAME: Falk, Stephen T	
40		(B) REGISTRATION NUMBER: 36,795	
41		(C) REFERENCE/DOCKET NUMBER: GM10025	•
42			
43		(ix) TELECOMMUNICATION INFORMATION:	
44		(A) TELEPHONE: 215-994-2488	
45		(B) TELEFAX: 215-994-2222	
46		(C) TELEX:	



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47
48
49
              (2) INFORMATION FOR SEQ ID NO:1:
50
           (i) SEQUENCE CHARACTERISTICS:
51
52
             (A) LENGTH: 1351 base pairs
              (B) TYPE: nucleic acid
53
             (C) STRANDEDNESS: double
54
           (D) TOPOLOGY: linear
55
56
57
           (xi) SEOUENCE DESCRIPTION: SEO ID NO:1:
58
59
     ATGAGTAAGG AGTTTTATAT AATGACACAC TATCATTTTG TCGGAATTAA AGGTTCTGGC
60
     ATGAGTTCAT TAGCACAAAT CATGCATGAT TTAGGACATG AAGTTCAAGG ATCGGATATT
                                                                            120
61
     GAGAACTACG TATTTACAGA AGTTGCTCTT AGAAATAAGG GGATAAAAAT ATTACCATTT
                                                                            180
62
     GGTGCTAATA ACATAAAAGA AGATATGGTA GTTATACAAG GTAATGCATT CGCGAGTAGC
                                                                            240
63
     CATGAAGAA TAGTACGTGC ACATCAATTG AAATTAGATG TTGTAAGTTA TAATGATTTT
                                                                            300
64
     TTAGGACAGA TTATTGATCA ATATACTTCA GTAGCTGTAA CTGGTGCACA TGGTAAAACT
                                                                            360
65
     TCTACAACAG GTTTATTATC ACATGTTATG AATGGTGATA AAAAGACTTC ATTTTTAATT
                                                                            420
66
     GGTGATGGCA CAGGTATGGG ATTGCCTGAA AGTGATTATT TCGCTTTTGA GGCATGTGAA
                                                                            480
67
     TATAGACGTC ACTTTTAAG TTATAAACCT GATTACGCAA TTATGACAAA TATTGATTTC
                                                                            540
68
     GATCATCCTG ATTATTTCAA AGATATTAAT GATGTTTTTG ATGCATTCCA AGAAATGGCA
                                                                            600
69
70
     CATAATGTTA AAAAAGGTAT TATTGCTTGG GGTGATGATG AACATCTACG TAAAATTGAA
                                                                            660
71
     GCAGATGTTC CAATTTATTA CTATGGATTT AAAGATTCGG ATGACATTTA TGCTCAAAAT
                                                                            720
     ATTCAAATTA CGGATAAAGG TACTGCTTTT GATGTGTATG TGGATGGTGA GTTTTATGAT
72
                                                                            780
     CACTTCCTGT CTCCACAATA TGGTGACCAT ACAGTTTTAA ATGCATTAGC TGTAATTGCG
                                                                            840
73
     ATTAGTTATT TAGAGAAGCT AGATGTTACA AATATTAAAG AAGCATTAGA AACGTTTGGT
                                                                            900
74
     GGTGTTAAAC GTCGTTTCAA TGAAACTACA ATTGCAAATC AAGTTATTGT AGATGATTAT
75
                                                                            960
     GCACACCATC CAAGAGAAAT TAGTGCTACA ATTGACACAG CACGAAAGAA ATATCCACAT
76
                                                                           1020
77
     AAAGAAGTTG TTGCAGTATT TCAACCACAC ACTTTCTCTA GAACAAGC ATTTTTAAAT
                                                                           1080
     GAATTTGCAG AAAGTTTATG TAAAGCAGAT CGTGTATTCT TATGTGAAAT TTTTGGCTCA
78
                                                                           1140
     ATTAGAGAAA ATTCTGGCGC ATTAACGATA CAAGATTTAA TTGATAAAAT TGGAGGTGCA
79
                                                                           1200
     TCGTTCATTA ATGAAGATCT TATTAATGTA TTAGAACAAT TTGATAATGC TGTTGTTTTA
80
                                                                           1260
     TTTATGGGTG CAGGTGATAT TCAAAAATTA CAAAATGCAT ATTTAGATAA ATTAGGCATG
                                                                           1320
81
     AAAAATGCGT TTTAATATGT TTATAATAGA G
82
                                                                           1351
83
               (2) INFORMATION FOR SEQ ID NO:2:
84
85
86
           (i) SEQUENCE CHARACTERISTICS:
87
             (A) LENGTH: 437 amino acids
             (B) TYPE: amino acid
88
             (C) STRANDEDNESS: single
89
90
             (D) TOPOLOGY: linear
91
92
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
93
94
     Met Thr His Tyr His Phe Val Gly Ile Lys Gly Ser Gly Met Ser Ser
95
96
                       5
                                          10
     Leu Ala Gln Ile Met His Asp Leu Gly His Glu Val Gln Gly Ser Asp
97
98
                                      25
99
     Ile Glu Asn Tyr Val Phe Thr Glu Val Ala Leu Arg Asn Lys Gly Ile
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														INI	UIS	ET: S.
100			35					40					45			
101	Lys	Ile	Leu	Pro	Phe	Gly	Ala	Asn	Asn	Ile	Lys	Glu	Asp	Met	Val	Val
102		50					55					60				
103	Ile	Gln	Gly	Asn	Ala	Phe	Ala	Ser	Ser	His	Glu	Glu	Ile	Val	Arg	Ala
104	65					70					75					80
105	His	Gln	Leu	Lys	Leu	Asp	Val	Val	Ser	Tyr	Asn	Asp	Phe	Leu	Gly	Gln
106					85					90					95	
107	Ile	Ile	Asp	Gln	Tyr	Thr	Ser	Val	Ala	Val	Thr	Gly	Ala	His	Gly	Lys
108				100					105					110		
109	Thr	Ser	Thr	Thr	Gly	Leu	Leu	Ser	His	Val	Met	Asn	Gly	Asp	Lys	Lys
110			115					120					125			
111	Thr	Ser	Phe	Leu	Ile	Gly	Asp	Gly	Thr	Gly	Met	Gly	Leu	Pro	Glu	Ser
112		130					135					140				
113	Asp	Tyr	Phe	Ala	Phe	Glu	Ala	Cys	Glu	Tyr	Arg	Arg	His	Phe	Leu	Ser
114	145					150					155					160
115	Tyr	Lys	Pro	Asp	Tyr	Ala	Ile	Met	Thr	Asn	Ile	Asp	Phe	Asp	His	Pro
116					165					170					175	
117	Asp	Tyr	Phe	Lys	Asp	Ile	Asn	Asp	Val	Phe	Asp	Ala	Phe	Gln	Glu	Met
118				180					185					190		
119	Ala	His	Asn	Val	Lys	Lys	Gly	Ile	Ile	Ala	Trp	Gly	Asp	Asp	Glu	His
120			195					200		,	,		205			
121	Leu	Arg	Lys	Ile	Glu	Ala	Asp	Val	Pro	Ile	Tyr	Tyr	Tyr	Gly	Phe	Lys
122		210					215					220				
123	Asp	Ser	Asp	Asp	Ile	Tyr	Ala	Gln	Asn	Ile	Gln	Ile	Thr	Asp	Lys	Gly
124	225					230					235					240
125	Thr	Ala	Phe	Asp	Val	Tyr	Val	Asp	Gly	Glu	Phe	Tyr	Asp	His	Phe	Leu
126					245					250					255	
127	Ser	Pro	Gln		Gly	Asp	His	Thr		Leu	Asn	Ala	Leu		Val	Ile
128	_	_		260		_			265	_	_		_	270	_	_
129	Ala	Ile		Tyr	Leu	Glu	Lys		Asp	Val	Thr	Asn		Lys	Glu	Ala
130	_		275	_,				280	_	_	_,	_	285	_,	_,	
131	Leu		Thr	Phe	Gly	СТÄ		Lys	Arg	Arg	Phe		GLu	Thr	Thr	IIe
132		290	a1		-1-	1	295					300	D		~ 1	-1-
133		Asn	GIN	vaı	Ile		Asp	Asp	Tyr	Ата		HIS	Pro	Arg	GTU	
134	305	37.	mb	T3.	3	310	31.	3	T	T	315	D	TT-2	T	α1	320
135 136	ser	Ата	THE	тте	Asp	THE	Ата	Arg	гуѕ	330	Tyr	Pro	HIS	гуѕ	335	vaı
137	v-1	31 0	17.1	Dho	325 Gln	Dro	Uic	Πh∝	Dho		λ ~~	mb	01 n	א ז ה		Γ 011
138	Val	Ата	Vат	340	GIII	PIO	nis	IIII	345	Ser	ALG	1111	GIII	350	FIIE	Leu
139	λen	alu.	Dha		Glu	Sor	T 011	Cvc		λla	λen	λrα	Val.	-	T (21)	Cue
140	ASII	GIU	355	AIG	GIU	Der	пеа	360	цуз	ALG	нэр	ALG	365	1110	пец	Cys
141	Glu	T1e		G] v	Ser	T1a	Δra		Δcn	Ser	G] v	Δla		Thr	Tle	Gln
142	OLU	370	1 110	CLy	DCI	110	375	OLU	AD!!	DCI	OLy	380	шсц		110	01
143	Asp		Tle	Asp	Lys	Tle		Glv	Δla	Ser	Phe		Asn	Glu	Asp	Leu
144	385				_,_	390	1	- 1			395					400
145		Asn	Val	ī.eu	Glu		Phe	Asn	Δsn	Δla		Val	T.eu	Phe	Met	Gly
146					405	J 1			no	410					415	01,
147	Δla	Glv	Asp	Tle	Gln	Lvs	Leu	Gln	Δsn		Tur	Leu	Asp	Lvs		Glv
148		1		420		-1-			425		-1-			430		1
149	Met	Lys	Asn		Phe											
150			435													
151																
152			(2)	INE	ORMA	OITA	FOE	SEC	DI	NO: 3	3:					
			. ,	_			_	- 1	-							

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153																
154		(i) S	~													
155			LEN				_	irs								
156			TYP													
157			STR					Э								
158		(D)	TOP	OLOG	Y: 1:	inea:	r			_						
159																
160																
161		(xi)	SEQU	ENCE	DES	CRIP'	TION	: SE	Q ID	NO:	3:					
162																
163	ATTTAA	AGAT	TCGG.	ATGA	CA T	TTAT	GCTC	A AA'	ratt'	TCAA	ATT.	ACGG.	ATA .	AAGG'	TACTGC	60
164	TGTTGA	TGTG	TATG'	TGGA	TG G'	TGAG'	TTTT	A TG	ATCA	CTTC	CTG'	TCTC	CAC .	AATA'	TGGTGA	120
165	CCATAC	AGTT	TTAA	ATGC	AT TA	AGCT	GTAA'	r TG	CGAT'	TAGT	TAT'	TTAG	AGA .	AGCT	AGATGT	
166	TACAAA															
167	TACAAT															
168	TACAAT															
169	ACACAC															
170	AGATCG															
171	GATACA															
172	TGTATT															
173	ATTACA															
174	ATTACA	MAAI	GCAL	MIIII	AG A	IMMM	IIAG	3 CA	IGAA	HMMI	GCG	1111.	MAI.	AIGI.	IIMIMA	000
175		12	\ TM	FORM	A TO TO	N EOI	D C17/	1 TN	NO.	4.						
		(2) IN	E ORM	AIIO	N FO	K SE	עד כ	NO:	4 :						
176		,	BOUE	NGE (~~~ D	. ame	D T C M	T.C.C.								
177		(i) S														
178			LEN					cias								
179		, ,	TYP													
180			STR				_	9								
181		(D)	TOP	OLOG	Y: 1	inea	r									
182																
183																
184		(Xi)	SEQU	ENCE	DES	CRIP	TION	: SE	Q ID	NO:	4:					
185	_					_		_	_	_	_	_	_	_		
186	Phe Ly	s Asp	Ser	_	Asp	Ile	Tyr	Ala	Gln	Iļe	Phe	Gln	Ile	Thr	Asp	
187	1			5					10					15		
188	Lys Gl	y Thr		Val	Asp	Val	Tyr		Asp	Gly	Glu	Phe	Tyr	Asp	His	
189			20					25					30			
190	Phe Le	u Ser	Pro	Gln	Tyr	Gly	Asp	His	Thr	Val	Leu	Asn	Ala	Leu	Ala	
191		35					40					45				
192	Val Il	e Ala	Ile	Ser	Tyr	Leu	Glu	Lys	Leu	Asp	Val	Thr	Asn	Ile	Lys	
193	50					55		_			60					
194	Glu Al	a Leu	Glu	Thr	Phe	Gly	Gly	Val	Lys	Arg	Arq	Phe	Asn	Glu	Thr	
195	65				70	-	-		-	75	_				80	
196	Thr Il	e Ala	Asn	Gln	Val	Ile	Val	Asp	Asp	Tvr	Ala	His	His	Pro	Arq	
197				85				-	90	-				95	, ,	
198	Glu Il	e Ser	Ala		Tle	Asp	Thr	Ala		Lvs	Lvs	Tvr	Pro		Lvs	
199			100					105	3	-1-	-1-	- 1 -	110		-,-	
200	Glu Va	l Val		Val	Phe	Gln	Pro		Thr	Phe	Ser	Ara			Ala	
201	J_U 70.	115				O T 11	120			1 110	201	125		0.111		
202	Phe Le			Pho	دΙ۵	Glu		וים.	Ser	I.ve	د ۱ ۵		Δra	Val	Phe	
202	13		GIU	FIIE	VIG	135	SET	Leu	Ser	пуъ	140	rsb	ALG	vaı	LIIC	
203	Leu Cy		т16	Dhe	@1 v		Tla	λr~	יינט	Nen		<u>@</u> 1 ***	λla	Len	Thr.	
204	_	o GIU	116	tite	_	Ser	TTG	ar 9	GIU		TIIL	сту	WIG	пец		
203	145				150					155					160	

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	INPUT SET: \$27178.ra	W											
206 207	Ile Gln Asp Leu Ile Asp Lys Ile Glu Gly Ala Ser Leu Ile Asn Glu 165 170 175												
208	Asp Ser Ile Asn Val Leu Glu Gln Phe Asp Asn Ala Val Val Leu Phe 180 185 190												
209 210													
210	Met Gly Ala Gly Asp Ile Gln Lys Leu Gln Asn Ala Tyr Leu Asp Lys 195 200 205												
211	Leu Gly Met Lys Asn Ala Phe												
212	210 215												
213	210 215												
214	(2) INFORMATION FOR SEQ ID NO:5:												
215	(2) INFORMATION FOR BEQ ID NO.3.												
217	(i) SECTIFNOR CHARACTERISTICS.												
217	(i) SEQUENCE CHARACTERISTICS:												
219	(A) LENGTH: 19 base pairs(B) TYPE: nucleic acid												
220	(C) STRANDEDNESS: single												
221	(D) TOPOLOGY: linear												
222	(2) 101020017 22.1002												
223													
224	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:												
225	(,												
226	CTTCATTAAT GAACGATGC	19											
227													
228	(2) INFORMATION FOR SEQ ID NO:6:												
229													
230	(i) SEQUENCE CHARACTERISTICS:												
231	(A) LENGTH: 19 base pairs												
232	(B) TYPE: nucleic acid												
233	(C) STRANDEDNESS: single												
234	(D) TOPOLOGY: linear												
235													
236													
237	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:												
238	·												
239	GTTACAAATA TTAAAGAAG	19											

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SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/09/103,287*

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Original Text